

SUPPLEMENTAL MATERIAL

Table S1. Age-Stratified Relative Risk of Emergency Department Visits on Wildfire-Smoke Days Relative to Days Without Smoke Across Lags 0 through 4 Days, 8 California Air Basins (May 1 - September 30, 2015). Statistically Significant Relative Risks are Shown in Bold.

Models adjusted for heat index, day of week, time trend, and log-population offset. RR indicates relative risk; CI, confidence interval.

NA - Not applicable - counts were too insufficient for analysis

Outcome	Lag	Exposure	All Adults		Adults 19-44		Adults 45-64		Adults 65+	
			RR	95% CI	RR	95% CI	RR	95% CI	RR	95% CI
All-cause cardiovascular	0	Light	1.02	(1.00, 1.03)	0.97	(0.94, 1.00)	0.99	(0.97, 1.01)	1.06	(1.04, 1.08)
		Medium	1.05	(1.03, 1.08)	0.99	(0.94, 1.04)	1.03	(0.99, 1.07)	1.09	(1.05, 1.12)
		Dense	1.08	(1.03, 1.12)	0.94	(0.85, 1.03)	1.03	(0.96, 1.10)	1.15	(1.09, 1.22)
	1	Light	1.04	(1.03, 1.05)	0.98	(0.95, 1.01)	1.02	(1.00, 1.04)	1.07	(1.05, 1.09)
		Medium	1.05	(1.03, 1.08)	1.01	(0.96, 1.07)	1.01	(0.97, 1.05)	1.10	(1.06, 1.13)
		Dense	1.04	(1.00, 1.09)	0.94	(0.85, 1.04)	0.98	(0.92, 1.05)	1.12	(1.06, 1.18)
	2	Light	1.03	(1.02, 1.05)	0.99	(0.96, 1.02)	1.01	(0.99, 1.03)	1.06	(1.04, 1.08)
		Medium	1.04	(1.01, 1.07)	1.00	(0.95, 1.06)	1.00	(0.96, 1.04)	1.08	(1.05, 1.12)
		Dense	1.07	(1.03, 1.12)	0.96	(0.88, 1.06)	1.04	(0.97, 1.11)	1.13	(1.07, 1.20)
	3	Light	1.02	(1.00, 1.03)	1.01	(0.98, 1.04)	1.00	(0.98, 1.02)	1.03	(1.02, 1.05)
		Medium	1.06	(1.04, 1.09)	1.06	(1.01, 1.12)	1.05	(1.01, 1.09)	1.08	(1.04, 1.11)
		Dense	1.04	(1.00, 1.09)	0.92	(0.84, 1.02)	1.01	(0.95, 1.08)	1.10	(1.05, 1.17)
	4	Light	1.01	(1.00, 1.03)	0.98	(0.95, 1.01)	1.00	(0.98, 1.02)	1.03	(1.01, 1.05)
		Medium	1.06	(1.03, 1.08)	1.04	(0.99, 1.10)	1.04	(1.00, 1.08)	1.07	(1.04, 1.11)
		Dense	1.02	(0.98, 1.06)	1.05	(0.96, 1.15)	0.96	(0.90, 1.03)	1.05	(1.00, 1.11)
Hypertension	0	Light	1.01	(1.00, 1.03)	0.95	(0.92, 0.98)	0.99	(0.96, 1.01)	1.05	(1.03, 1.07)
		Medium	1.05	(1.02, 1.07)	0.99	(0.94, 1.05)	1.03	(0.99, 1.07)	1.08	(1.04, 1.11)
		Dense	1.08	(1.03, 1.12)	0.95	(0.86, 1.05)	1.03	(0.96, 1.10)	1.15	(1.09, 1.21)
	1	Light	1.03	(1.02, 1.05)	0.98	(0.95, 1.01)	1.02	(1.00, 1.04)	1.06	(1.04, 1.08)
		Medium	1.05	(1.02, 1.07)	1.02	(0.96, 1.07)	1.01	(0.97, 1.05)	1.09	(1.05, 1.12)
		Dense	1.03	(0.98, 1.08)	0.95	(0.86, 1.05)	0.97	(0.90, 1.04)	1.10	(1.04, 1.17)
	2	Light	1.03	(1.02, 1.05)	0.99	(0.96, 1.03)	1.01	(0.99, 1.03)	1.06	(1.04, 1.08)
		Medium	1.04	(1.01, 1.07)	1.01	(0.96, 1.07)	1.00	(0.96, 1.04)	1.08	(1.05, 1.12)
		Dense	1.05	(1.00, 1.10)	0.94	(0.85, 1.03)	1.03	(0.96, 1.10)	1.10	(1.04, 1.16)
	3	Light	1.02	(1.00, 1.03)	1.02	(0.99, 1.05)	1.00	(0.98, 1.02)	1.04	(1.02, 1.06)
		Medium	1.06	(1.04, 1.09)	1.06	(1.00, 1.11)	1.05	(1.01, 1.10)	1.07	(1.03, 1.10)
		Dense	1.03	(0.99, 1.08)	0.93	(0.84, 1.03)	1.01	(0.94, 1.08)	1.08	(1.03, 1.15)

	4	Light	1.01	(1.00, 1.03)	0.99	(0.96, 1.02)	1.00	(0.97, 1.02)	1.03	(1.01, 1.05)
		Medium	1.06	(1.03, 1.08)	1.02	(0.97, 1.08)	1.05	(1.01, 1.09)	1.07	(1.04, 1.11)
		Dense	1.01	(0.97, 1.06)	1.05	(0.95, 1.16)	0.96	(0.89, 1.03)	1.04	(0.98, 1.10)
Ischemic heart disease	0	Light	1.02	(0.97, 1.08)	1.06	(0.88, 1.28)	0.97	(0.88, 1.08)	1.04	(0.98, 1.11)
		Medium	1.01	(0.92, 1.11)	1.44	(1.07, 1.94)	0.94	(0.79, 1.12)	1.01	(0.90, 1.14)
		Dense	1.01	(0.86, 1.19)	1.08	(0.59, 1.95)	0.85	(0.62, 1.18)	1.10	(0.90, 1.33)
	1	Light	1.02	(0.97, 1.08)	0.97	(0.80, 1.18)	0.95	(0.86, 1.05)	1.07	(1.00, 1.14)
		Medium	1.03	(0.94, 1.13)	1.06	(0.76, 1.49)	0.98	(0.82, 1.16)	1.06	(0.94, 1.18)
		Dense	1.14	(0.97, 1.33)	1.50	(0.90, 2.48)	0.95	(0.70, 1.29)	1.22	(1.01, 1.47)
	2	Light	1.06	(1.00, 1.11)	1.21	(1.00, 1.45)	1.03	(0.93, 1.13)	1.06	(1.00, 1.13)
		Medium	1.00	(0.91, 1.09)	1.19	(0.86, 1.66)	0.96	(0.80, 1.14)	1.00	(0.89, 1.13)
		Dense	1.16	(1.00, 1.35)	0.83	(0.41, 1.66)	1.21	(0.93, 1.59)	1.15	(0.95, 1.39)
	3	Light	1.01	(0.96, 1.06)	1.03	(0.85, 1.24)	0.99	(0.90, 1.09)	1.02	(0.95, 1.09)
		Medium	1.07	(0.98, 1.17)	1.20	(0.88, 1.64)	0.96	(0.81, 1.14)	1.12	(1.00, 1.25)
		Dense	1.11	(0.96, 1.29)	0.75	(0.38, 1.47)	1.22	(0.94, 1.59)	1.07	(0.89, 1.30)
	4	Light	1.02	(0.97, 1.08)	0.97	(0.80, 1.18)	1.09	(0.99, 1.20)	1.00	(0.93, 1.06)
		Medium	0.95	(0.87, 1.05)	1.02	(0.72, 1.43)	0.94	(0.79, 1.12)	0.96	(0.85, 1.08)
		Dense	0.94	(0.80, 1.11)	0.83	(0.44, 1.59)	1.06	(0.80, 1.41)	0.89	(0.72, 1.09)
Myocardial infarction	0	Light	1.02	(0.94, 1.10)	1.06	(0.80, 1.41)	1.01	(0.89, 1.15)	1.02	(0.93, 1.13)
		Medium	1.03	(0.91, 1.18)	1.59	(1.03, 2.45)	0.93	(0.74, 1.18)	1.05	(0.89, 1.25)
		Dense	1.05	(0.83, 1.32)	1.13	(0.46, 2.75)	0.96	(0.63, 1.44)	1.10	(0.82, 1.48)
	1	Light	0.98	(0.91, 1.06)	0.94	(0.69, 1.27)	0.92	(0.80, 1.05)	1.02	(0.92, 1.12)
		Medium	1.07	(0.94, 1.22)	1.49	(0.94, 2.34)	1.00	(0.79, 1.25)	1.08	(0.91, 1.28)
		Dense	1.30	(1.06, 1.61)	1.28	(0.55, 2.97)	1.13	(0.78, 1.65)	1.42	(1.09, 1.84)
	2	Light	1.03	(0.95, 1.11)	1.18	(0.90, 1.56)	1.04	(0.91, 1.19)	1.01	(0.91, 1.11)
		Medium	1.05	(0.92, 1.20)	1.24	(0.77, 2.01)	1.02	(0.81, 1.28)	1.05	(0.89, 1.25)
		Dense	1.35	(1.10, 1.65)	1.13	(0.46, 2.77)	1.33	(0.94, 1.89)	1.37	(1.05, 1.78)
	3	Light	1.00	(0.93, 1.08)	1.07	(0.80, 1.43)	1.04	(0.91, 1.18)	0.98	(0.88, 1.08)
		Medium	1.04	(0.91, 1.18)	0.93	(0.54, 1.59)	0.89	(0.70, 1.14)	1.13	(0.96, 1.34)
		Dense	1.22	(0.98, 1.51)	1.01	(0.41, 2.53)	1.28	(0.89, 1.82)	1.20	(0.91, 1.59)
	4	Light	1.01	(0.94, 1.09)	1.00	(0.71, 1.39)	1.05	(0.92, 1.20)	0.99	(0.90, 1.09)
		Medium	0.97	(0.84, 1.11)	1.25	(0.73, 2.16)	0.94	(0.74, 1.19)	0.96	(0.81, 1.15)
		Dense	1.08	(0.86, 1.35)	0.41	(0.08, 2.11)	1.13	(0.78, 1.66)	1.09	(0.82, 1.46)
Dysrhythmia	0	Light	1.06	(1.04, 1.09)	1.06	(0.98, 1.14)	1.02	(0.97, 1.08)	1.08	(1.04, 1.11)
		Medium	1.10	(1.05, 1.15)	1.01	(0.88, 1.15)	1.09	(1.00, 1.19)	1.12	(1.06, 1.18)

	Dense	1.16	(1.08, 1.25)	0.82	(0.63, 1.07)	1.05	(0.90, 1.23)	1.24	(1.13, 1.36)	
Myocardial infarction	1	Light	1.08	(1.05, 1.11)	1.02	(0.94, 1.10)	1.05	(0.99, 1.10)	1.10	(1.06, 1.13)
		Medium	1.10	(1.06, 1.16)	1.04	(0.91, 1.19)	1.06	(0.97, 1.16)	1.13	(1.07, 1.19)
		Dense	1.04	(0.96, 1.13)	0.87	(0.68, 1.12)	1.03	(0.88, 1.21)	1.07	(0.96, 1.18)
	2	Light	1.05	(1.02, 1.08)	1.01	(0.94, 1.09)	1.02	(0.97, 1.07)	1.07	(1.03, 1.10)
		Medium	1.05	(1.01, 1.10)	0.97	(0.85, 1.11)	0.98	(0.89, 1.08)	1.09	(1.03, 1.15)
		Dense	1.18	(1.09, 1.27)	1.15	(0.93, 1.43)	1.16	(1.00, 1.34)	1.19	(1.09, 1.31)
	3	Light	1.04	(1.01, 1.07)	0.99	(0.92, 1.07)	1.02	(0.97, 1.07)	1.05	(1.02, 1.09)
		Medium	1.09	(1.05, 1.15)	1.15	(1.01, 1.30)	1.08	(0.99, 1.18)	1.09	(1.03, 1.16)
		Dense	1.10	(1.02, 1.19)	0.89	(0.70, 1.14)	1.03	(0.88, 1.20)	1.15	(1.05, 1.26)
Heart failure	4	Light	1.04	(1.02, 1.07)	0.99	(0.92, 1.07)	1.06	(1.01, 1.11)	1.04	(1.01, 1.08)
		Medium	1.06	(1.01, 1.11)	1.14	(1.00, 1.29)	0.95	(0.87, 1.04)	1.09	(1.03, 1.15)
		Dense	1.04	(0.97, 1.13)	1.13	(0.91, 1.42)	1.02	(0.88, 1.20)	1.04	(0.95, 1.15)
	0	Light	1.01	(0.98, 1.04)	0.87	(0.76, 1.00)	0.99	(0.94, 1.04)	1.04	(1.00, 1.07)
		Medium	1.06	(1.01, 1.12)	0.98	(0.78, 1.23)	1.01	(0.92, 1.11)	1.10	(1.03, 1.17)
		Dense	1.09	(1.00, 1.19)	0.83	(0.53, 1.30)	0.91	(0.76, 1.08)	1.20	(1.08, 1.33)
	1	Light	1.03	(1.00, 1.06)	0.91	(0.80, 1.04)	1.02	(0.97, 1.08)	1.05	(1.01, 1.09)
		Medium	1.06	(1.01, 1.12)	0.92	(0.73, 1.16)	1.02	(0.93, 1.12)	1.10	(1.03, 1.17)
		Dense	1.09	(0.99, 1.19)	0.65	(0.40, 1.06)	1.02	(0.86, 1.20)	1.16	(1.04, 1.30)
	2	Light	1.04	(1.01, 1.08)	0.96	(0.84, 1.09)	1.00	(0.95, 1.05)	1.07	(1.04, 1.11)
		Medium	1.01	(0.96, 1.06)	0.99	(0.79, 1.25)	0.97	(0.88, 1.06)	1.03	(0.97, 1.10)
		Dense	1.10	(1.01, 1.20)	0.75	(0.48, 1.19)	1.06	(0.91, 1.25)	1.15	(1.03, 1.28)
Peripheral arterial disease	3	Light	1.06	(1.03, 1.09)	1.09	(0.96, 1.24)	1.03	(0.98, 1.09)	1.06	(1.03, 1.10)
		Medium	1.05	(1.00, 1.10)	1.02	(0.80, 1.28)	1.02	(0.93, 1.11)	1.07	(1.00, 1.14)
		Dense	1.13	(1.04, 1.24)	0.80	(0.50, 1.27)	1.02	(0.87, 1.20)	1.22	(1.10, 1.35)
	4	Light	1.03	(1.00, 1.06)	0.96	(0.84, 1.10)	1.01	(0.96, 1.07)	1.05	(1.01, 1.09)
		Medium	1.08	(1.02, 1.13)	0.98	(0.77, 1.23)	1.02	(0.93, 1.12)	1.11	(1.04, 1.18)
		Dense	1.08	(0.99, 1.18)	1.22	(0.83, 1.78)	0.98	(0.83, 1.16)	1.11	(1.00, 1.24)
	0	Light	0.98	(0.67, 1.43)	0.73	(0.23, 2.25)	0.87	(0.51, 1.49)	1.09	(0.62, 1.92)
		Medium	0.97	(0.50, 1.87)	0.79	(0.12, 5.12)	1.10	(0.47, 2.59)	0.91	(0.32, 2.59)
		Dense	1.08	(0.36, 3.26)	3.09	(0.47, 20.52)	1.41	(0.36, 5.53)	0.62	(0.07, 5.43)
	1	Light	0.98	(0.67, 1.44)	0.77	(0.24, 2.48)	1.01	(0.60, 1.69)	1.00	(0.56, 1.79)
		Medium	1.26	(0.69, 2.31)	1.40	(0.28, 7.14)	1.08	(0.44, 2.64)	1.36	(0.56, 3.32)
		Dense	1.25	(0.42, 3.79)	1.79	(0.12, 26.69)	1.23	(0.25, 5.92)	1.21	(0.22, 6.54)
	2	Light	1.02	(0.70, 1.49)	0.89	(0.31, 2.50)	1.06	(0.64, 1.78)	1.01	(0.57, 1.80)

		Medium	1.08	(0.56, 2.08)	1.46	(0.31, 6.84)	1.18	(0.48, 2.89)	0.96	(0.34, 2.73)
		Dense	1.00	(0.31, 3.23)	NA	NA	1.06	(0.22, 5.18)	1.10	(0.20, 5.99)
3	Light	1.27	(0.89, 1.81)	1.20	(0.45, 3.17)	1.16	(0.70, 1.92)	1.35	(0.80, 2.29)	
	Medium	1.61	(0.91, 2.84)	1.48	(0.30, 7.17)	1.65	(0.76, 3.60)	1.61	(0.68, 3.80)	
	Dense	1.22	(0.41, 3.65)	NA	NA	1.53	(0.38, 6.12)	1.20	(0.23, 6.32)	
4	Light	1.00	(0.68, 1.48)	0.90	(0.31, 2.63)	1.15	(0.69, 1.91)	0.93	(0.50, 1.71)	
	Medium	1.57	(0.90, 2.74)	1.31	(0.27, 6.33)	1.56	(0.72, 3.39)	1.62	(0.70, 3.78)	
	Dense	1.94	(0.81, 4.64)	NA	NA	1.14	(0.24, 5.50)	2.71	(0.87, 8.48)	
Pulmonary embolism	0	Light	1.04	(0.91, 1.19)	1.26	(0.93, 1.71)	0.84	(0.65, 1.11)	1.12	(0.95, 1.32)
		Medium	0.98	(0.77, 1.24)	1.42	(0.87, 2.31)	1.00	(0.65, 1.54)	0.82	(0.59, 1.13)
		Dense	1.11	(0.74, 1.65)	1.10	(0.42, 2.88)	1.22	(0.60, 2.45)	1.03	(0.61, 1.72)
	1	Light	1.11	(0.98, 1.27)	1.15	(0.85, 1.57)	1.05	(0.82, 1.35)	1.15	(0.97, 1.35)
		Medium	1.06	(0.84, 1.35)	1.12	(0.65, 1.91)	0.80	(0.49, 1.32)	1.26	(0.95, 1.66)
		Dense	0.93	(0.60, 1.45)	0.69	(0.21, 2.24)	0.94	(0.42, 2.09)	1.00	(0.58, 1.74)
	2	Light	1.13	(0.99, 1.29)	1.18	(0.86, 1.61)	1.00	(0.78, 1.30)	1.21	(1.03, 1.42)
		Medium	1.06	(0.83, 1.34)	0.90	(0.49, 1.66)	1.01	(0.65, 1.58)	1.14	(0.85, 1.53)
		Dense	1.43	(1.00, 2.05)	1.23	(0.49, 3.12)	1.19	(0.59, 2.40)	1.71	(1.12, 2.62)
	3	Light	1.09	(0.95, 1.24)	1.11	(0.81, 1.51)	1.09	(0.85, 1.40)	1.08	(0.92, 1.28)
		Medium	1.21	(0.97, 1.51)	1.06	(0.61, 1.83)	1.07	(0.69, 1.64)	1.39	(1.06, 1.81)
		Dense	1.33	(0.93, 1.92)	0.85	(0.29, 2.45)	1.27	(0.65, 2.50)	1.55	(1.01, 2.37)
	4	Light	1.00	(0.87, 1.14)	1.19	(0.87, 1.62)	0.96	(0.74, 1.24)	0.97	(0.82, 1.15)
		Medium	1.07	(0.85, 1.34)	0.87	(0.48, 1.59)	1.23	(0.83, 1.83)	1.00	(0.74, 1.34)
		Dense	1.02	(0.68, 1.52)	1.07	(0.43, 2.68)	0.77	(0.33, 1.77)	1.20	(0.75, 1.93)
All-cause cerebrovascular	0	Light	1.05	(1.00, 1.11)	0.84	(0.69, 1.03)	1.03	(0.93, 1.14)	1.07	(1.00, 1.15)
		Medium	1.07	(0.97, 1.18)	0.77	(0.53, 1.11)	0.99	(0.83, 1.19)	1.12	(1.00, 1.26)
		Dense	1.12	(0.95, 1.32)	0.91	(0.50, 1.67)	0.91	(0.65, 1.28)	1.22	(1.00, 1.48)
	1	Light	1.09	(1.03, 1.15)	1.00	(0.83, 1.20)	1.10	(1.00, 1.22)	1.09	(1.01, 1.16)
		Medium	1.17	(1.06, 1.28)	0.93	(0.66, 1.31)	1.12	(0.94, 1.33)	1.21	(1.08, 1.35)
		Dense	1.07	(0.90, 1.27)	1.14	(0.64, 2.02)	0.66	(0.44, 0.99)	1.22	(1.00, 1.49)
	2	Light	1.05	(0.99, 1.11)	1.25	(1.05, 1.48)	1.01	(0.91, 1.12)	1.05	(0.98, 1.13)
		Medium	1.08	(0.98, 1.19)	0.87	(0.60, 1.25)	1.02	(0.85, 1.23)	1.12	(0.99, 1.26)
		Dense	1.06	(0.90, 1.26)	0.51	(0.22, 1.19)	1.10	(0.80, 1.49)	1.08	(0.88, 1.33)
	3	Light	1.05	(1.00, 1.11)	1.15	(0.96, 1.37)	0.97	(0.87, 1.07)	1.08	(1.01, 1.16)
		Medium	1.14	(1.04, 1.26)	0.97	(0.69, 1.38)	1.12	(0.94, 1.33)	1.16	(1.04, 1.30)
		Dense	0.97	(0.82, 1.16)	0.64	(0.30, 1.37)	1.01	(0.74, 1.38)	0.98	(0.79, 1.21)

	4	Light	1.06	(1.00, 1.12)	1.10	(0.91, 1.32)	0.99	(0.89, 1.10)	1.08	(1.01, 1.16)
		Medium	1.10	(1.00, 1.21)	1.38	(1.02, 1.86)	1.01	(0.85, 1.21)	1.12	(1.00, 1.26)
		Dense	0.96	(0.81, 1.14)	0.68	(0.32, 1.45)	0.83	(0.59, 1.17)	1.03	(0.84, 1.27)
Ischemic stroke	0	Light	1.04	(0.96, 1.14)	0.83	(0.62, 1.12)	1.01	(0.87, 1.18)	1.07	(0.96, 1.20)
		Medium	1.03	(0.88, 1.20)	0.51	(0.26, 1.00)	0.91	(0.69, 1.20)	1.12	(0.93, 1.36)
		Dense	1.11	(0.86, 1.45)	1.10	(0.46, 2.62)	0.84	(0.50, 1.42)	1.25	(0.91, 1.71)
	1	Light	1.08	(0.99, 1.18)	1.37	(1.06, 1.77)	1.05	(0.91, 1.22)	1.08	(0.96, 1.21)
		Medium	1.10	(0.94, 1.28)	0.83	(0.46, 1.50)	0.99	(0.76, 1.30)	1.16	(0.96, 1.41)
		Dense	1.03	(0.78, 1.36)	0.81	(0.28, 2.35)	0.57	(0.30, 1.08)	1.26	(0.92, 1.73)
	2	Light	1.06	(0.97, 1.16)	1.17	(0.89, 1.53)	0.94	(0.80, 1.10)	1.12	(1.00, 1.25)
		Medium	1.05	(0.90, 1.23)	1.06	(0.63, 1.78)	1.00	(0.77, 1.31)	1.07	(0.88, 1.31)
		Dense	0.96	(0.72, 1.27)	1.68	(0.78, 3.59)	0.90	(0.55, 1.48)	0.95	(0.66, 1.35)
	3	Light	1.08	(0.99, 1.18)	1.19	(0.91, 1.55)	0.93	(0.80, 1.09)	1.16	(1.04, 1.29)
		Medium	1.16	(1.00, 1.34)	1.03	(0.61, 1.74)	0.99	(0.76, 1.29)	1.25	(1.04, 1.50)
		Dense	0.94	(0.71, 1.25)	0.77	(0.27, 2.23)	0.70	(0.40, 1.20)	1.08	(0.77, 1.52)
	4	Light	1.08	(0.99, 1.17)	1.01	(0.76, 1.35)	1.01	(0.86, 1.17)	1.11	(1.00, 1.24)
		Medium	1.09	(0.94, 1.27)	1.90	(1.26, 2.85)	1.05	(0.81, 1.36)	1.07	(0.88, 1.30)
		Dense	0.96	(0.73, 1.27)	1.67	(0.78, 3.58)	0.64	(0.36, 1.13)	1.08	(0.78, 1.51)
Transient ischemic attack	0	Light	1.00	(0.89, 1.13)	0.86	(0.57, 1.30)	1.13	(0.92, 1.38)	0.96	(0.82, 1.13)
		Medium	1.14	(0.94, 1.40)	0.80	(0.39, 1.66)	1.13	(0.80, 1.60)	1.18	(0.91, 1.53)
		Dense	1.23	(0.87, 1.73)	0.40	(0.06, 2.52)	1.23	(0.68, 2.22)	1.30	(0.85, 2.01)
	1	Light	1.01	(0.89, 1.14)	0.59	(0.37, 0.95)	1.20	(0.99, 1.46)	0.96	(0.82, 1.13)
		Medium	1.14	(0.93, 1.40)	0.99	(0.52, 1.88)	1.12	(0.79, 1.60)	1.16	(0.89, 1.51)
		Dense	0.92	(0.62, 1.37)	0.41	(0.07, 2.57)	0.63	(0.28, 1.45)	1.09	(0.68, 1.75)
	2	Light	1.01	(0.89, 1.14)	1.19	(0.82, 1.71)	1.07	(0.88, 1.31)	0.96	(0.82, 1.13)
		Medium	1.01	(0.82, 1.25)	0.51	(0.20, 1.28)	1.05	(0.73, 1.50)	1.04	(0.79, 1.37)
		Dense	1.07	(0.74, 1.54)	NA	NA	1.17	(0.63, 2.15)	1.12	(0.71, 1.79)
	3	Light	1.05	(0.93, 1.18)	1.01	(0.68, 1.50)	1.04	(0.84, 1.27)	1.06	(0.91, 1.24)
		Medium	1.22	(1.00, 1.49)	0.77	(0.36, 1.66)	1.39	(1.01, 1.92)	1.19	(0.91, 1.54)
		Dense	0.98	(0.67, 1.43)	0.90	(0.25, 3.26)	1.12	(0.60, 2.06)	0.93	(0.57, 1.54)
	4	Light	1.03	(0.91, 1.16)	1.41	(0.99, 2.02)	0.94	(0.77, 1.16)	1.04	(0.89, 1.22)
		Medium	1.08	(0.88, 1.33)	0.84	(0.39, 1.80)	0.93	(0.65, 1.34)	1.17	(0.90, 1.52)
		Dense	0.90	(0.61, 1.33)	0.54	(0.09, 3.27)	0.88	(0.45, 1.70)	0.94	(0.57, 1.53)
All-cause respiratory	0	Light	1.02	(1.00, 1.04)	0.99	(0.96, 1.01)	1.00	(0.97, 1.03)	1.07	(1.04, 1.10)
		Medium	1.09	(1.05, 1.12)	1.05	(1.01, 1.10)	1.08	(1.03, 1.13)	1.12	(1.07, 1.18)

	Dense	1.09	(1.03, 1.15)	1.05	(0.97, 1.14)	1.06	(0.98, 1.16)	1.14	(1.05, 1.24)	
Asthma	1	Light	1.04	(1.02, 1.06)	1.02	(1.00, 1.05)	1.03	(1.00, 1.06)	1.08	(1.05, 1.11)
		Medium	1.08	(1.05, 1.11)	1.05	(1.00, 1.09)	1.09	(1.03, 1.14)	1.11	(1.06, 1.17)
		Dense	1.10	(1.04, 1.16)	1.06	(0.98, 1.14)	1.07	(0.98, 1.16)	1.18	(1.08, 1.28)
	2	Light	1.03	(1.01, 1.05)	1.02	(0.99, 1.04)	1.02	(0.99, 1.05)	1.06	(1.04, 1.09)
		Medium	1.05	(1.02, 1.08)	1.04	(0.99, 1.09)	1.04	(0.99, 1.09)	1.08	(1.03, 1.14)
		Dense	1.09	(1.04, 1.15)	1.03	(0.96, 1.12)	1.09	(1.00, 1.18)	1.15	(1.06, 1.25)
	3	Light	1.02	(1.00, 1.03)	1.00	(0.98, 1.03)	1.01	(0.98, 1.04)	1.03	(1.00, 1.06)
		Medium	1.08	(1.05, 1.12)	1.06	(1.02, 1.11)	1.10	(1.05, 1.15)	1.09	(1.04, 1.14)
		Dense	1.10	(1.05, 1.16)	1.06	(0.98, 1.14)	1.07	(0.98, 1.16)	1.19	(1.10, 1.29)
COPD	4	Light	1.00	(0.98, 1.02)	0.99	(0.96, 1.01)	1.00	(0.97, 1.03)	1.02	(0.99, 1.05)
		Medium	1.07	(1.04, 1.10)	1.07	(1.03, 1.12)	1.07	(1.02, 1.12)	1.08	(1.03, 1.13)
		Dense	1.04	(0.99, 1.10)	1.01	(0.93, 1.09)	1.04	(0.96, 1.14)	1.07	(0.99, 1.17)
	0	Light	1.02	(0.99, 1.05)	1.02	(0.98, 1.06)	0.99	(0.95, 1.04)	1.05	(1.00, 1.11)
		Medium	1.07	(1.02, 1.12)	1.09	(1.03, 1.17)	1.01	(0.93, 1.10)	1.09	(1.00, 1.19)
		Dense	1.05	(0.97, 1.14)	1.10	(0.98, 1.23)	1.01	(0.87, 1.17)	1.02	(0.87, 1.19)
	1	Light	1.04	(1.02, 1.07)	1.04	(1.00, 1.08)	1.03	(0.99, 1.08)	1.08	(1.03, 1.13)
		Medium	1.07	(1.02, 1.12)	1.11	(1.04, 1.18)	1.04	(0.95, 1.13)	1.04	(0.96, 1.14)
		Dense	1.06	(0.98, 1.16)	1.10	(0.98, 1.23)	1.04	(0.89, 1.20)	1.03	(0.88, 1.21)
	2	Light	1.03	(1.00, 1.06)	1.03	(0.99, 1.07)	1.02	(0.97, 1.07)	1.07	(1.02, 1.12)
		Medium	1.03	(0.98, 1.08)	1.05	(0.98, 1.12)	1.01	(0.93, 1.10)	1.02	(0.93, 1.11)
		Dense	1.09	(1.01, 1.19)	1.22	(1.09, 1.35)	1.03	(0.89, 1.19)	0.95	(0.81, 1.11)
	3	Light	1.01	(0.98, 1.03)	1.00	(0.96, 1.03)	1.02	(0.97, 1.07)	1.02	(0.97, 1.07)
		Medium	1.06	(1.01, 1.11)	1.07	(1.00, 1.14)	1.05	(0.97, 1.15)	1.02	(0.94, 1.12)
		Dense	1.06	(0.97, 1.15)	1.07	(0.96, 1.20)	1.02	(0.88, 1.18)	1.08	(0.94, 1.25)
	4	Light	0.98	(0.95, 1.01)	0.97	(0.94, 1.01)	0.97	(0.93, 1.02)	1.00	(0.95, 1.05)
		Medium	1.02	(0.98, 1.07)	1.07	(1.00, 1.14)	1.00	(0.91, 1.08)	0.97	(0.89, 1.06)
		Dense	1.03	(0.95, 1.11)	0.97	(0.86, 1.09)	1.11	(0.97, 1.27)	1.02	(0.88, 1.18)

		Medium	1.15	(1.09, 1.23)	1.18	(0.95, 1.47)	1.16	(1.05, 1.28)	1.15	(1.06, 1.24)
		Dense	1.25	(1.12, 1.38)	1.17	(0.80, 1.71)	1.28	(1.09, 1.51)	1.23	(1.08, 1.40)
3	Light	1.04	(1.01, 1.08)	0.97	(0.85, 1.12)	1.04	(0.98, 1.10)	1.05	(1.00, 1.10)	
	Medium	1.18	(1.11, 1.25)	1.29	(1.04, 1.59)	1.24	(1.13, 1.36)	1.13	(1.05, 1.22)	
	Dense	1.29	(1.16, 1.42)	1.42	(1.00, 2.02)	1.29	(1.09, 1.51)	1.28	(1.13, 1.45)	
4	Light	1.03	(0.99, 1.07)	1.01	(0.88, 1.16)	1.06	(1.00, 1.12)	1.01	(0.97, 1.06)	
	Medium	1.17	(1.10, 1.24)	1.44	(1.17, 1.77)	1.18	(1.07, 1.30)	1.14	(1.06, 1.23)	
	Dense	1.23	(1.11, 1.36)	1.87	(1.37, 2.56)	1.30	(1.11, 1.53)	1.15	(1.00, 1.31)	
Pneumonia	0	Light	1.04	(0.99, 1.09)	0.91	(0.82, 1.01)	0.97	(0.89, 1.07)	1.12	(1.05, 1.19)
		Medium	1.09	(1.00, 1.18)	1.02	(0.85, 1.22)	1.06	(0.90, 1.24)	1.13	(1.00, 1.26)
		Dense	1.23	(1.07, 1.42)	1.07	(0.77, 1.47)	1.32	(1.02, 1.71)	1.23	(1.02, 1.50)
	1	Light	1.05	(1.00, 1.10)	1.01	(0.91, 1.11)	0.97	(0.89, 1.07)	1.12	(1.05, 1.19)
		Medium	1.08	(1.00, 1.18)	1.03	(0.85, 1.23)	1.09	(0.93, 1.28)	1.10	(0.98, 1.23)
		Dense	1.20	(1.04, 1.38)	1.07	(0.78, 1.48)	1.18	(0.90, 1.55)	1.25	(1.03, 1.52)
	2	Light	1.05	(1.00, 1.10)	1.08	(0.98, 1.20)	1.00	(0.91, 1.10)	1.07	(1.00, 1.14)
		Medium	1.04	(0.95, 1.13)	1.05	(0.88, 1.27)	0.97	(0.82, 1.14)	1.08	(0.96, 1.21)
		Dense	1.17	(1.01, 1.35)	0.94	(0.66, 1.32)	1.29	(1.00, 1.67)	1.17	(0.96, 1.42)
	3	Light	1.07	(1.03, 1.13)	1.07	(0.96, 1.18)	1.05	(0.96, 1.15)	1.09	(1.02, 1.16)
		Medium	1.14	(1.05, 1.24)	1.24	(1.05, 1.48)	1.05	(0.89, 1.24)	1.16	(1.03, 1.30)
		Dense	1.26	(1.10, 1.45)	1.16	(0.84, 1.59)	1.31	(1.00, 1.70)	1.27	(1.06, 1.54)
	4	Light	1.04	(0.99, 1.09)	1.01	(0.91, 1.12)	1.05	(0.96, 1.15)	1.04	(0.97, 1.11)
		Medium	1.20	(1.10, 1.30)	1.18	(0.99, 1.41)	1.05	(0.90, 1.24)	1.29	(1.15, 1.43)
		Dense	1.21	(1.05, 1.40)	1.34	(0.99, 1.80)	1.31	(1.01, 1.69)	1.13	(0.92, 1.37)
Other chest/respiratory symptom	0	Light	0.99	(0.97, 1.01)	0.95	(0.92, 0.99)	0.98	(0.94, 1.02)	1.05	(1.00, 1.10)
		Medium	1.06	(1.02, 1.10)	1.01	(0.95, 1.07)	1.07	(1.00, 1.15)	1.12	(1.04, 1.21)
		Dense	1.00	(0.93, 1.07)	0.98	(0.88, 1.09)	0.96	(0.85, 1.09)	1.07	(0.93, 1.22)
	1	Light	1.03	(1.00, 1.05)	1.01	(0.97, 1.04)	1.01	(0.97, 1.05)	1.08	(1.03, 1.13)
		Medium	1.04	(1.00, 1.08)	0.99	(0.93, 1.05)	1.07	(1.00, 1.15)	1.07	(0.98, 1.15)
		Dense	1.06	(0.99, 1.14)	1.03	(0.93, 1.14)	1.03	(0.91, 1.16)	1.15	(1.00, 1.31)
	2	Light	1.02	(0.99, 1.04)	1.00	(0.97, 1.04)	1.00	(0.97, 1.04)	1.06	(1.01, 1.11)
		Medium	1.03	(0.99, 1.07)	1.03	(0.97, 1.09)	1.02	(0.95, 1.09)	1.04	(0.96, 1.12)
		Dense	1.02	(0.95, 1.10)	0.88	(0.79, 0.99)	1.03	(0.91, 1.16)	1.21	(1.06, 1.37)
	3	Light	1.00	(0.98, 1.03)	1.00	(0.97, 1.04)	1.00	(0.96, 1.04)	1.00	(0.96, 1.05)
		Medium	1.05	(1.00, 1.09)	1.03	(0.97, 1.10)	1.06	(0.99, 1.14)	1.04	(0.96, 1.13)
		Dense	1.07	(1.00, 1.14)	1.06	(0.96, 1.18)	1.01	(0.90, 1.14)	1.16	(1.02, 1.32)

	4	Light	1.00	(0.98, 1.03)	1.00	(0.97, 1.03)	1.00	(0.96, 1.04)	1.02	(0.97, 1.06)
		Medium	1.06	(1.01, 1.10)	1.05	(0.99, 1.11)	1.09	(1.02, 1.16)	1.02	(0.94, 1.11)
		Dense	0.97	(0.91, 1.05)	0.99	(0.89, 1.10)	0.90	(0.80, 1.02)	1.05	(0.92, 1.20)
Acute appendicitis	0	Light	1.07	(0.92, 1.26)	1.01	(0.85, 1.21)	1.20	(0.85, 1.70)	1.10	(0.69, 1.75)
		Medium	0.79	(0.57, 1.08)	0.62	(0.42, 0.90)	1.11	(0.59, 2.08)	0.99	(0.42, 2.34)
		Dense	0.83	(0.48, 1.43)	0.46	(0.21, 1.02)	1.48	(0.57, 3.82)	1.27	(0.35, 4.65)
	1	Light	0.99	(0.84, 1.17)	0.89	(0.74, 1.08)	1.17	(0.82, 1.66)	1.07	(0.67, 1.69)
		Medium	1.12	(0.85, 1.47)	1.08	(0.80, 1.47)	1.29	(0.71, 2.33)	0.89	(0.37, 2.15)
		Dense	0.92	(0.54, 1.56)	0.75	(0.39, 1.43)	1.53	(0.59, 3.97)	0.52	(0.07, 3.83)
	2	Light	1.11	(0.95, 1.31)	1.03	(0.86, 1.25)	1.14	(0.80, 1.63)	1.46	(0.95, 2.24)
		Medium	0.83	(0.60, 1.14)	0.81	(0.57, 1.17)	0.84	(0.42, 1.71)	0.86	(0.34, 2.20)
		Dense	1.28	(0.81, 2.02)	1.23	(0.73, 2.07)	1.59	(0.63, 4.01)	0.79	(0.15, 4.16)
	3	Light	1.00	(0.84, 1.17)	0.96	(0.80, 1.16)	1.05	(0.74, 1.51)	1.02	(0.65, 1.61)
		Medium	0.84	(0.62, 1.15)	0.93	(0.67, 1.30)	0.69	(0.32, 1.48)	0.73	(0.29, 1.83)
		Dense	1.00	(0.60, 1.67)	0.90	(0.49, 1.64)	1.55	(0.61, 3.90)	0.42	(0.06, 3.04)
	4	Light	0.95	(0.81, 1.12)	0.91	(0.75, 1.10)	1.07	(0.74, 1.53)	0.90	(0.56, 1.44)
		Medium	0.96	(0.72, 1.28)	0.84	(0.60, 1.19)	1.36	(0.76, 2.44)	0.72	(0.29, 1.78)
		Dense	1.01	(0.61, 1.68)	0.97	(0.54, 1.74)	1.21	(0.42, 3.45)	0.85	(0.21, 3.48)
Long bone fracture	0	Light	1.09	(1.02, 1.16)	1.04	(0.90, 1.19)	1.06	(0.95, 1.19)	1.12	(1.02, 1.24)
		Medium	1.12	(1.00, 1.26)	1.13	(0.89, 1.42)	1.16	(0.97, 1.39)	1.09	(0.92, 1.30)
		Dense	1.31	(1.09, 1.56)	1.27	(0.87, 1.85)	1.12	(0.82, 1.54)	1.46	(1.12, 1.90)
	1	Light	1.10	(1.03, 1.17)	1.02	(0.89, 1.17)	1.14	(1.02, 1.27)	1.11	(1.00, 1.22)
		Medium	1.09	(0.97, 1.22)	1.12	(0.89, 1.40)	1.10	(0.91, 1.32)	1.06	(0.89, 1.27)
		Dense	1.30	(1.09, 1.56)	1.21	(0.84, 1.76)	1.14	(0.83, 1.56)	1.47	(1.12, 1.92)
	2	Light	1.04	(0.97, 1.11)	0.95	(0.83, 1.09)	1.08	(0.97, 1.21)	1.06	(0.96, 1.17)
		Medium	1.05	(0.94, 1.18)	1.13	(0.90, 1.41)	1.06	(0.88, 1.28)	1.00	(0.84, 1.20)
		Dense	1.22	(1.01, 1.47)	1.24	(0.85, 1.80)	1.46	(1.10, 1.95)	1.05	(0.77, 1.43)
	3	Light	1.04	(0.97, 1.11)	0.93	(0.81, 1.07)	1.13	(1.01, 1.26)	1.03	(0.93, 1.14)
		Medium	1.01	(0.90, 1.13)	0.93	(0.73, 1.18)	1.04	(0.85, 1.26)	1.04	(0.87, 1.23)
		Dense	0.96	(0.78, 1.18)	0.69	(0.42, 1.14)	0.85	(0.59, 1.23)	1.15	(0.86, 1.54)
	4	Light	1.02	(0.95, 1.09)	0.86	(0.74, 0.99)	1.02	(0.91, 1.14)	1.11	(1.00, 1.22)
		Medium	1.04	(0.92, 1.16)	0.99	(0.78, 1.26)	0.97	(0.80, 1.18)	1.10	(0.93, 1.31)
		Dense	1.12	(0.92, 1.36)	1.15	(0.77, 1.72)	0.92	(0.64, 1.31)	1.24	(0.94, 1.64)
All visits	0	Light	1.02	(1.01, 1.03)	0.99	(0.98, 1.01)	1.01	(0.99, 1.03)	1.07	(1.06, 1.09)
		Medium	1.04	(1.02, 1.06)	1.01	(0.99, 1.04)	1.05	(1.02, 1.08)	1.10	(1.07, 1.13)

	Dense	1.06	(1.03, 1.10)	1.01	(0.98, 1.05)	1.05	(1.01, 1.11)	1.19	(1.13, 1.25)
1	Light	1.02	(1.01, 1.03)	0.99	(0.98, 1.01)	1.02	(1.01, 1.04)	1.07	(1.05, 1.09)
	Medium	1.05	(1.03, 1.07)	1.02	(1.00, 1.05)	1.05	(1.02, 1.08)	1.11	(1.07, 1.14)
	Dense	1.04	(1.01, 1.07)	0.98	(0.95, 1.02)	1.03	(0.98, 1.08)	1.17	(1.12, 1.23)
2	Light	1.01	(1.00, 1.02)	1.00	(0.98, 1.01)	1.01	(1.00, 1.03)	1.06	(1.04, 1.07)
	Medium	1.04	(1.02, 1.06)	1.02	(1.00, 1.04)	1.03	(1.00, 1.06)	1.09	(1.06, 1.12)
	Dense	1.04	(1.01, 1.07)	0.98	(0.94, 1.02)	1.06	(1.01, 1.11)	1.15	(1.10, 1.21)
3	Light	1.01	(1.00, 1.02)	1.00	(0.99, 1.02)	1.01	(1.00, 1.03)	1.03	(1.01, 1.04)
	Medium	1.04	(1.02, 1.06)	1.03	(1.00, 1.05)	1.04	(1.02, 1.07)	1.07	(1.04, 1.10)
	Dense	1.04	(1.00, 1.07)	0.99	(0.96, 1.03)	1.05	(1.00, 1.10)	1.11	(1.06, 1.16)
4	Light	1.00	(0.99, 1.01)	0.99	(0.98, 1.00)	1.01	(0.99, 1.02)	1.03	(1.01, 1.05)
	Medium	1.03	(1.01, 1.05)	1.02	(0.99, 1.04)	1.04	(1.01, 1.07)	1.06	(1.03, 1.09)
	Dense	1.01	(0.98, 1.04)	0.99	(0.95, 1.02)	1.02	(0.97, 1.07)	1.06	(1.01, 1.11)

Table S2. Sex-Stratified Relative Risk of Emergency Department Visits on Wildfire-Smoke Days Relative to Days Without Smoke Across Lags 0 through 4 Days, 8 California Air Basins (May 1 - September 30, 2015). Statistically Significant Relative Risks are Shown in Bold.

Models adjusted for heat index, day of week, time trend, and log-population offset. RR indicates relative risk; CI, confidence interval.

Outcome	Lag	Exposure	All Adults		Female Adults		Male Adults	
			RR	95% CI	RR	95% CI	RR	95% CI
All-cause cardiovascular	0	Light	1.02	(1.00, 1.03)	1.01	(0.99, 1.03)	1.03	(1.01 , 1.05)
		Medium	1.05	(1.03 , 1.08)	1.03	(1.00, 1.06)	1.08	(1.04 , 1.12)
		Dense	1.08	(1.03 , 1.12)	1.08	(1.02 , 1.13)	1.08	(1.01 , 1.14)
	1	Light	1.04	(1.03 , 1.05)	1.03	(1.02 , 1.05)	1.05	(1.03 , 1.07)
		Medium	1.05	(1.03 , 1.08)	1.03	(1.00, 1.06)	1.08	(1.04 , 1.12)
		Dense	1.04	(1.00, 1.09)	1.01	(0.96, 1.06)	1.08	(1.02 , 1.15)
	2	Light	1.03	(1.02 , 1.05)	1.04	(1.02 , 1.06)	1.03	(1.01 , 1.05)
		Medium	1.04	(1.01 , 1.07)	1.03	(1.00, 1.06)	1.05	(1.01 , 1.08)
		Dense	1.07	(1.03 , 1.12)	1.07	(1.01 , 1.12)	1.08	(1.02 , 1.15)
	3	Light	1.02	(1.00, 1.03)	1.02	(1.00, 1.04)	1.02	(1.00, 1.04)
		Medium	1.06	(1.04 , 1.09)	1.07	(1.04 , 1.11)	1.05	(1.02 , 1.09)
		Dense	1.04	(1.00, 1.09)	1.03	(0.98, 1.09)	1.06	(0.99, 1.12)
	4	Light	1.01	(1.00, 1.03)	1.01	(1.00, 1.03)	1.01	(0.99, 1.03)
		Medium	1.06	(1.03 , 1.08)	1.05	(1.02 , 1.08)	1.07	(1.03 , 1.10)
		Dense	1.02	(0.98, 1.06)	1.03	(0.98, 1.08)	1.01	(0.95, 1.07)
Hypertension	0	Light	1.01	(1.00, 1.03)	1.01	(0.99, 1.03)	1.02	(1.00, 1.04)
		Medium	1.05	(1.02 , 1.07)	1.03	(1.00, 1.06)	1.07	(1.03 , 1.11)
		Dense	1.08	(1.03 , 1.12)	1.08	(1.02 , 1.13)	1.08	(1.01 , 1.15)
	1	Light	1.03	(1.02 , 1.05)	1.03	(1.01 , 1.05)	1.04	(1.02 , 1.06)
		Medium	1.05	(1.02 , 1.07)	1.03	(1.00, 1.06)	1.07	(1.03 , 1.11)
		Dense	1.03	(0.98, 1.08)	0.99	(0.94, 1.05)	1.08	(1.01 , 1.15)
	2	Light	1.03	(1.02 , 1.05)	1.04	(1.02 , 1.06)	1.02	(1.00, 1.05)
		Medium	1.04	(1.01 , 1.07)	1.03	(1.00, 1.07)	1.05	(1.01 , 1.08)
		Dense	1.05	(1.00, 1.10)	1.05	(1.00, 1.11)	1.04	(0.98, 1.11)
	3	Light	1.02	(1.00, 1.03)	1.02	(1.00, 1.04)	1.02	(1.00, 1.04)
		Medium	1.06	(1.04 , 1.09)	1.07	(1.04 , 1.11)	1.05	(1.01 , 1.09)
		Dense	1.03	(0.99, 1.08)	1.03	(0.98, 1.09)	1.04	(0.97, 1.10)

	4	Light	1.01	(1.00, 1.03)	1.01	(1.00, 1.03)	1.01	(0.99, 1.03)	
		Medium	1.06	(1.03, 1.08)	1.04	(1.01, 1.08)	1.07	(1.04, 1.11)	
		Dense	1.01	(0.97, 1.06)	1.02	(0.97, 1.08)	1.00	(0.93, 1.06)	
Ischemic heart disease	0	Light	1.02	(0.97, 1.08)	1.00	(0.92, 1.08)	1.04	(0.97, 1.11)	
		Medium	1.01	(0.92, 1.11)	1.01	(0.88, 1.17)	1.00	(0.89, 1.13)	
		Dense	1.01	(0.86, 1.19)	1.02	(0.80, 1.30)	1.01	(0.81, 1.25)	
	1	Light	1.02	(0.97, 1.08)	1.04	(0.96, 1.12)	1.01	(0.94, 1.09)	
		Medium	1.03	(0.94, 1.13)	1.06	(0.93, 1.22)	1.00	(0.89, 1.14)	
		Dense	1.14	(0.97, 1.33)	1.07	(0.83, 1.36)	1.19	(0.98, 1.45)	
	2	Light	1.06	(1.00, 1.11)	1.08	(1.00, 1.17)	1.04	(0.97, 1.11)	
		Medium	1.00	(0.91, 1.09)	0.97	(0.84, 1.12)	1.01	(0.90, 1.15)	
		Dense	1.16	(1.00, 1.35)	1.08	(0.85, 1.36)	1.23	(1.01, 1.49)	
	3	Light	1.01	(0.96, 1.06)	1.01	(0.93, 1.09)	1.01	(0.94, 1.08)	
		Medium	1.07	(0.98, 1.17)	1.07	(0.94, 1.23)	1.06	(0.94, 1.20)	
		Dense	1.11	(0.96, 1.29)	1.19	(0.95, 1.49)	1.05	(0.86, 1.29)	
	4	Light	1.02	(0.97, 1.08)	1.03	(0.96, 1.12)	1.02	(0.95, 1.09)	
		Medium	0.95	(0.87, 1.05)	0.97	(0.84, 1.11)	0.95	(0.84, 1.07)	
		Dense	0.94	(0.80, 1.11)	1.01	(0.80, 1.28)	0.88	(0.71, 1.10)	
Myocardial infarction	0	Light	1.02	(0.94, 1.10)	1.03	(0.92, 1.14)	1.01	(0.91, 1.13)	
		Medium	1.03	(0.91, 1.18)	0.97	(0.80, 1.18)	1.08	(0.90, 1.29)	
		Dense	1.05	(0.83, 1.32)	1.10	(0.80, 1.52)	1.02	(0.73, 1.41)	
	1	Light	0.98	(0.91, 1.06)	1.00	(0.90, 1.12)	0.96	(0.86, 1.07)	
		Medium	1.07	(0.94, 1.22)	1.09	(0.91, 1.31)	1.05	(0.88, 1.26)	
		Dense	1.30	(1.06, 1.61)	1.35	(1.00, 1.81)	1.28	(0.95, 1.71)	
	2	Light	1.03	(0.95, 1.11)	1.02	(0.92, 1.14)	1.03	(0.93, 1.15)	
		Medium	1.05	(0.92, 1.20)	1.02	(0.84, 1.23)	1.07	(0.89, 1.29)	
		Dense	1.35	(1.10, 1.65)	1.32	(0.98, 1.76)	1.37	(1.03, 1.82)	
	3	Light	1.00	(0.93, 1.08)	1.05	(0.94, 1.17)	0.97	(0.87, 1.08)	
		Medium	1.04	(0.91, 1.18)	1.10	(0.92, 1.32)	0.99	(0.82, 1.19)	
		Dense	1.22	(0.98, 1.51)	1.21	(0.89, 1.65)	1.22	(0.91, 1.64)	
	4	Light	1.01	(0.94, 1.09)	1.00	(0.90, 1.11)	1.02	(0.92, 1.13)	
		Medium	0.97	(0.84, 1.11)	0.92	(0.76, 1.12)	1.00	(0.83, 1.21)	
		Dense	1.08	(0.86, 1.35)	1.21	(0.89, 1.64)	0.98	(0.71, 1.37)	
Dysrhythmia	0	Light	1.06	(1.04, 1.09)	1.05	(1.02, 1.09)	1.07	(1.03, 1.11)	
		Medium	1.10	(1.05, 1.15)	1.10	(1.03, 1.16)	1.11	(1.04, 1.18)	

	Dense	1.16	(1.08 , 1.25)	1.17	(1.06 , 1.29)	1.16	(1.03 , 1.29)	
Myocardial infarction	1	Light	1.08	(1.05 , 1.11)	1.08	(1.04 , 1.12)	1.08	(1.04 , 1.12)
	Medium	1.10	(1.06 , 1.16)	1.09	(1.03 , 1.16)	1.12	(1.05 , 1.19)	
	Dense	1.04	(0.96, 1.13)	1.00	(0.90, 1.12)	1.08	(0.96, 1.21)	
	2	Light	1.05	(1.02 , 1.08)	1.07	(1.03 , 1.11)	1.04	(1.00, 1.08)
		Medium	1.05	(1.01 , 1.10)	1.07	(1.01 , 1.14)	1.04	(0.97, 1.11)
		Dense	1.18	(1.09 , 1.27)	1.16	(1.05 , 1.28)	1.20	(1.08 , 1.34)
	3	Light	1.04	(1.01 , 1.07)	1.05	(1.02 , 1.09)	1.02	(0.99, 1.06)
		Medium	1.09	(1.05 , 1.15)	1.10	(1.03 , 1.17)	1.09	(1.02 , 1.16)
		Dense	1.10	(1.02 , 1.19)	1.07	(0.97, 1.19)	1.13	(1.01 , 1.26)
	4	Light	1.04	(1.02 , 1.07)	1.05	(1.01 , 1.09)	1.04	(1.00, 1.08)
		Medium	1.06	(1.01 , 1.11)	1.05	(0.99, 1.12)	1.07	(1.00, 1.14)
		Dense	1.04	(0.97, 1.13)	1.05	(0.95, 1.17)	1.04	(0.93, 1.16)
Heart failure	0	Light	1.01	(0.98, 1.04)	0.99	(0.95, 1.03)	1.03	(0.99, 1.08)
		Medium	1.06	(1.01 , 1.12)	1.04	(0.97, 1.12)	1.08	(1.01 , 1.17)
		Dense	1.09	(1.00, 1.19)	1.17	(1.04 , 1.31)	1.01	(0.88, 1.16)
	1	Light	1.03	(1.00, 1.06)	1.04	(1.00, 1.08)	1.03	(0.98, 1.07)
		Medium	1.06	(1.01 , 1.12)	1.05	(0.98, 1.12)	1.07	(1.00, 1.16)
		Dense	1.09	(0.99, 1.19)	1.05	(0.92, 1.18)	1.13	(0.99, 1.28)
	2	Light	1.04	(1.01 , 1.08)	1.04	(1.01 , 1.09)	1.04	(1.00, 1.09)
		Medium	1.01	(0.96, 1.06)	0.99	(0.92, 1.06)	1.03	(0.95, 1.11)
		Dense	1.10	(1.01 , 1.20)	1.12	(1.00, 1.26)	1.08	(0.95, 1.23)
	3	Light	1.06	(1.03 , 1.09)	1.07	(1.03 , 1.11)	1.04	(1.00, 1.09)
		Medium	1.05	(1.00, 1.10)	1.07	(1.00, 1.15)	1.02	(0.95, 1.11)
		Dense	1.13	(1.04 , 1.24)	1.12	(0.99, 1.26)	1.15	(1.01 , 1.30)
	4	Light	1.03	(1.00, 1.06)	1.04	(1.00, 1.09)	1.02	(0.98, 1.07)
		Medium	1.08	(1.02 , 1.13)	1.06	(0.99, 1.13)	1.09	(1.01 , 1.18)
		Dense	1.08	(0.99, 1.18)	1.07	(0.95, 1.20)	1.09	(0.96, 1.24)
Peripheral arterial disease	0	Light	0.98	(0.67, 1.43)	1.27	(0.82, 1.96)	0.77	(0.42, 1.40)
		Medium	0.97	(0.50, 1.87)	0.94	(0.40, 2.20)	0.99	(0.39, 2.54)
		Dense	1.08	(0.36, 3.26)	0.28	(0.02, 4.05)	1.70	(0.46, 6.25)
	1	Light	0.98	(0.67, 1.44)	0.93	(0.58, 1.51)	1.02	(0.59, 1.77)
		Medium	1.26	(0.69, 2.31)	1.25	(0.60, 2.62)	1.27	(0.52, 3.11)
		Dense	1.25	(0.42, 3.79)	1.14	(0.29, 4.42)	1.36	(0.27, 6.92)
	2	Light	1.02	(0.70, 1.49)	1.15	(0.73, 1.80)	0.92	(0.52, 1.63)

		Medium	1.08 (0.56, 2.08)	0.98 (0.42, 2.30)	1.15 (0.45, 2.96)	
		Dense	1.00 (0.31, 3.23)	0.89 (0.18, 4.25)	1.08 (0.21, 5.51)	
Pulmonary embolism	3	Light	1.27 (0.89, 1.81)	1.17 (0.75, 1.82)	1.35 (0.81, 2.26)	
		Medium	1.61 (0.91, 2.84)	1.40 (0.68, 2.87)	1.79 (0.79, 4.05)	
		Dense	1.22 (0.41, 3.65)	1.45 (0.44, 4.81)	1.01 (0.17, 6.23)	
	4	Light	1.00 (0.68, 1.48)	0.93 (0.56, 1.55)	1.06 (0.61, 1.84)	
		Medium	1.57 (0.90, 2.74)	1.71 (0.87, 3.39)	1.46 (0.63, 3.38)	
		Dense	1.94 (0.81, 4.64)	2.71 (1.04, 7.07)	1.36 (0.30, 6.08)	
All-cause cerebrovascular	0	Light	1.04 (0.91, 1.19)	0.95 (0.80, 1.13)	1.14 (0.93, 1.39)	
		Medium	0.98 (0.77, 1.24)	0.91 (0.66, 1.24)	1.05 (0.74, 1.49)	
		Dense	1.11 (0.74, 1.65)	1.31 (0.82, 2.09)	0.91 (0.47, 1.76)	
	1	Light	1.11 (0.98, 1.27)	1.15 (0.97, 1.35)	1.08 (0.88, 1.32)	
		Medium	1.06 (0.84, 1.35)	0.92 (0.67, 1.27)	1.20 (0.86, 1.68)	
		Dense	0.93 (0.60, 1.45)	1.30 (0.80, 2.10)	0.56 (0.24, 1.32)	
	2	Light	1.13 (0.99, 1.29)	1.11 (0.94, 1.31)	1.15 (0.95, 1.40)	
		Medium	1.06 (0.83, 1.34)	0.97 (0.71, 1.33)	1.14 (0.81, 1.61)	
		Dense	1.43 (1.00, 2.05)	1.58 (1.02, 2.45)	1.29 (0.73, 2.26)	
	3	Light	1.09 (0.95, 1.24)	1.08 (0.91, 1.28)	1.09 (0.90, 1.34)	
		Medium	1.21 (0.97, 1.51)	1.36 (1.04, 1.79)	1.07 (0.75, 1.52)	
		Dense	1.33 (0.93, 1.92)	1.74 (1.15, 2.62)	0.96 (0.51, 1.80)	
	4	Light	1.00 (0.87, 1.14)	0.95 (0.79, 1.13)	1.05 (0.86, 1.29)	
		Medium	1.07 (0.85, 1.34)	0.95 (0.70, 1.28)	1.19 (0.86, 1.66)	
		Dense	1.02 (0.68, 1.52)	1.03 (0.62, 1.70)	1.00 (0.54, 1.85)	

	4	Light	1.06	(1.00, 1.12)	1.04	(0.96, 1.12)	1.08	(0.99, 1.17)	
		Medium	1.10	(1.00, 1.21)	1.02	(0.89, 1.16)	1.19	(1.04, 1.36)	
		Dense	0.96	(0.81, 1.14)	1.08	(0.87, 1.35)	0.83	(0.64, 1.09)	
Ischemic stroke	0	Light	1.04	(0.96, 1.14)	1.00	(0.89, 1.12)	1.09	(0.96, 1.24)	
		Medium	1.03	(0.88, 1.20)	1.07	(0.88, 1.31)	0.99	(0.78, 1.24)	
		Dense	1.11	(0.86, 1.45)	1.16	(0.82, 1.64)	1.07	(0.72, 1.59)	
	1	Light	1.08	(0.99, 1.18)	1.05	(0.93, 1.18)	1.12	(0.99, 1.27)	
		Medium	1.10	(0.94, 1.28)	1.01	(0.81, 1.24)	1.19	(0.96, 1.48)	
		Dense	1.03	(0.78, 1.36)	1.14	(0.80, 1.62)	0.92	(0.60, 1.41)	
	2	Light	1.06	(0.97, 1.16)	1.02	(0.90, 1.14)	1.11	(0.97, 1.26)	
		Medium	1.05	(0.90, 1.23)	1.14	(0.94, 1.39)	0.96	(0.76, 1.22)	
		Dense	0.96	(0.72, 1.27)	0.96	(0.66, 1.39)	0.95	(0.63, 1.44)	
	3	Light	1.08	(0.99, 1.18)	1.02	(0.90, 1.14)	1.15	(1.02, 1.31)	
		Medium	1.16	(1.00, 1.34)	1.18	(0.97, 1.44)	1.13	(0.91, 1.41)	
		Dense	0.94	(0.71, 1.25)	1.01	(0.71, 1.45)	0.87	(0.56, 1.34)	
	4	Light	1.08	(0.99, 1.17)	1.11	(0.99, 1.25)	1.04	(0.91, 1.18)	
		Medium	1.09	(0.94, 1.27)	1.03	(0.84, 1.27)	1.14	(0.92, 1.42)	
		Dense	0.96	(0.73, 1.27)	1.10	(0.78, 1.56)	0.81	(0.52, 1.27)	
Transient ischemic attack	0	Light	1.00	(0.89, 1.13)	0.98	(0.83, 1.17)	1.03	(0.86, 1.22)	
		Medium	1.14	(0.94, 1.40)	1.16	(0.88, 1.53)	1.12	(0.84, 1.50)	
		Dense	1.23	(0.87, 1.73)	1.34	(0.84, 2.13)	1.08	(0.64, 1.80)	
	1	Light	1.01	(0.89, 1.14)	0.97	(0.81, 1.15)	1.06	(0.90, 1.25)	
		Medium	1.14	(0.93, 1.40)	1.18	(0.90, 1.56)	1.08	(0.80, 1.45)	
		Dense	0.92	(0.62, 1.37)	0.71	(0.38, 1.32)	1.21	(0.74, 2.00)	
	2	Light	1.01	(0.89, 1.14)	1.01	(0.86, 1.20)	1.00	(0.84, 1.19)	
		Medium	1.01	(0.82, 1.25)	0.95	(0.70, 1.29)	1.09	(0.81, 1.46)	
		Dense	1.07	(0.74, 1.54)	1.06	(0.63, 1.77)	1.08	(0.64, 1.82)	
	3	Light	1.05	(0.93, 1.18)	1.02	(0.86, 1.20)	1.09	(0.92, 1.29)	
		Medium	1.22	(1.00, 1.49)	1.23	(0.94, 1.62)	1.21	(0.91, 1.60)	
		Dense	0.98	(0.67, 1.43)	1.02	(0.60, 1.71)	0.94	(0.55, 1.61)	
	4	Light	1.03	(0.91, 1.16)	0.99	(0.83, 1.17)	1.08	(0.92, 1.28)	
		Medium	1.08	(0.88, 1.33)	0.98	(0.73, 1.32)	1.22	(0.92, 1.61)	
		Dense	0.90	(0.61, 1.33)	1.05	(0.63, 1.73)	0.71	(0.39, 1.32)	
All-cause respiratory	0	Light	1.02	(1.00, 1.04)	1.01	(0.99, 1.03)	1.03	(1.00, 1.06)	
		Medium	1.09	(1.05, 1.12)	1.08	(1.04, 1.12)	1.10	(1.05, 1.15)	

	Dense	1.09	(1.03 , 1.15)	1.06	(0.99, 1.13)	1.13	(1.05 , 1.22)	
COPD	1	Light	1.04	(1.02 , 1.06)	1.04	(1.02 , 1.06)	1.04	(1.02 , 1.07)
		Medium	1.08	(1.05 , 1.11)	1.08	(1.04 , 1.12)	1.09	(1.04 , 1.13)
		Dense	1.10	(1.04 , 1.16)	1.07	(1.00, 1.14)	1.14	(1.06 , 1.23)
	2	Light	1.03	(1.01 , 1.05)	1.04	(1.02 , 1.06)	1.02	(0.99, 1.05)
		Medium	1.05	(1.02 , 1.08)	1.05	(1.01 , 1.09)	1.06	(1.01 , 1.11)
		Dense	1.09	(1.04 , 1.15)	1.09	(1.02 , 1.16)	1.10	(1.02 , 1.19)
	3	Light	1.02	(1.00, 1.03)	1.01	(0.99, 1.04)	1.02	(0.99, 1.05)
		Medium	1.08	(1.05 , 1.12)	1.09	(1.05 , 1.13)	1.08	(1.03 , 1.13)
		Dense	1.10	(1.05 , 1.16)	1.10	(1.04 , 1.17)	1.11	(1.03 , 1.20)
	4	Light	1.00	(0.98, 1.02)	0.99	(0.97, 1.01)	1.01	(0.99, 1.04)
		Medium	1.07	(1.04 , 1.10)	1.06	(1.03 , 1.10)	1.08	(1.04 , 1.13)
		Dense	1.04	(0.99, 1.10)	1.03	(0.97, 1.10)	1.06	(0.98, 1.14)
Asthma	0	Light	1.02	(0.99, 1.05)	1.01	(0.98, 1.04)	1.03	(0.99, 1.08)
		Medium	1.07	(1.02 , 1.12)	1.07	(1.02 , 1.13)	1.05	(0.97, 1.14)
		Dense	1.05	(0.97, 1.14)	1.02	(0.93, 1.13)	1.11	(0.97, 1.27)
	1	Light	1.04	(1.02 , 1.07)	1.03	(1.00, 1.07)	1.06	(1.02 , 1.11)
		Medium	1.07	(1.02 , 1.12)	1.07	(1.02 , 1.13)	1.07	(0.98, 1.16)
		Dense	1.06	(0.98, 1.16)	1.04	(0.95, 1.15)	1.10	(0.96, 1.27)
	2	Light	1.03	(1.00, 1.06)	1.04	(1.00, 1.07)	1.03	(0.98, 1.07)
		Medium	1.03	(0.98, 1.08)	1.02	(0.97, 1.08)	1.05	(0.97, 1.14)
		Dense	1.09	(1.01 , 1.19)	1.09	(1.00, 1.20)	1.10	(0.96, 1.26)
	3	Light	1.01	(0.98, 1.03)	1.00	(0.97, 1.03)	1.02	(0.98, 1.07)
		Medium	1.06	(1.01 , 1.11)	1.05	(0.99, 1.10)	1.07	(0.99, 1.16)
		Dense	1.06	(0.97, 1.15)	1.05	(0.96, 1.15)	1.07	(0.94, 1.23)
	4	Light	0.98	(0.95, 1.01)	0.97	(0.94, 1.00)	1.00	(0.95, 1.05)
		Medium	1.02	(0.98, 1.07)	1.02	(0.97, 1.08)	1.03	(0.95, 1.12)
		Dense	1.03	(0.95, 1.11)	1.02	(0.93, 1.12)	1.04	(0.91, 1.20)

		Medium	1.15	(1.09 , 1.23)	1.19	(1.10 , 1.29)	1.11	(1.02 , 1.22)
		Dense	1.25	(1.12 , 1.38)	1.28	(1.12 , 1.46)	1.21	(1.04 , 1.41)
Pneumonia	3	Light	1.04	(1.01 , 1.08)	1.07	(1.02 , 1.12)	1.02	(0.97, 1.07)
		Medium	1.18	(1.11 , 1.25)	1.20	(1.11 , 1.30)	1.15	(1.06 , 1.26)
		Dense	1.29	(1.16 , 1.42)	1.31	(1.15 , 1.49)	1.26	(1.09 , 1.46)
	4	Light	1.03	(0.99, 1.07)	1.03	(0.99, 1.08)	1.03	(0.97, 1.08)
		Medium	1.17	(1.10 , 1.24)	1.18	(1.10 , 1.28)	1.15	(1.05 , 1.25)
		Dense	1.23	(1.11 , 1.36)	1.21	(1.06 , 1.38)	1.25	(1.08 , 1.45)
Other chest/respiratory symptom	0	Light	1.04	(0.99, 1.09)	1.04	(0.98, 1.11)	1.04	(0.97, 1.11)
		Medium	1.09	(1.00, 1.18)	1.06	(0.94, 1.19)	1.12	(0.99, 1.26)
		Dense	1.23	(1.07 , 1.42)	1.25	(1.02 , 1.51)	1.22	(1.00, 1.49)
	1	Light	1.05	(1.00, 1.10)	1.03	(0.97, 1.10)	1.07	(1.00, 1.15)
		Medium	1.08	(1.00, 1.18)	1.12	(1.00, 1.26)	1.05	(0.92, 1.18)
		Dense	1.20	(1.04 , 1.38)	1.30	(1.07 , 1.58)	1.10	(0.89, 1.35)
	2	Light	1.05	(1.00, 1.10)	1.05	(0.99, 1.12)	1.05	(0.98, 1.12)
		Medium	1.04	(0.95, 1.13)	0.98	(0.87, 1.11)	1.10	(0.98, 1.24)
		Dense	1.17	(1.01 , 1.35)	1.12	(0.91, 1.37)	1.22	(1.00, 1.49)
	3	Light	1.07	(1.03 , 1.13)	1.06	(0.99, 1.13)	1.09	(1.02 , 1.16)
		Medium	1.14	(1.05 , 1.24)	1.15	(1.02 , 1.28)	1.13	(1.01 , 1.28)
		Dense	1.26	(1.10 , 1.45)	1.22	(1.01 , 1.48)	1.31	(1.08 , 1.59)
	4	Light	1.04	(0.99, 1.09)	1.01	(0.95, 1.08)	1.06	(0.99, 1.13)
		Medium	1.20	(1.10 , 1.30)	1.18	(1.06 , 1.32)	1.21	(1.08 , 1.36)
		Dense	1.21	(1.05 , 1.40)	1.23	(1.01 , 1.49)	1.20	(0.98, 1.47)

	4	Light	1.00 (0.98, 1.03)	1.00 (0.97, 1.03)	1.02 (0.98, 1.05)	
		Medium	1.06 (1.01, 1.10)	1.05 (1.00, 1.10)	1.06 (1.00, 1.13)	
		Dense	0.97 (0.91, 1.05)	0.97 (0.88, 1.06)	0.98 (0.88, 1.10)	
Acute appendicitis	0	Light	1.07 (0.92, 1.26)	1.19 (0.94, 1.51)	0.97 (0.79, 1.20)	
		Medium	0.79 (0.57, 1.08)	0.76 (0.46, 1.25)	0.82 (0.55, 1.22)	
		Dense	0.83 (0.48, 1.43)	1.08 (0.51, 2.29)	0.61 (0.27, 1.38)	
	1	Light	0.99 (0.84, 1.17)	1.07 (0.83, 1.37)	0.92 (0.74, 1.15)	
		Medium	1.12 (0.85, 1.47)	1.15 (0.76, 1.74)	1.09 (0.76, 1.57)	
		Dense	0.92 (0.54, 1.56)	0.80 (0.34, 1.89)	1.04 (0.54, 2.01)	
	2	Light	1.11 (0.95, 1.31)	1.17 (0.92, 1.49)	1.07 (0.86, 1.32)	
		Medium	0.83 (0.60, 1.14)	0.75 (0.45, 1.25)	0.91 (0.61, 1.36)	
		Dense	1.28 (0.81, 2.02)	1.14 (0.55, 2.36)	1.42 (0.80, 2.50)	
	3	Light	1.00 (0.84, 1.17)	0.87 (0.67, 1.13)	1.13 (0.92, 1.39)	
		Medium	0.84 (0.62, 1.15)	0.66 (0.40, 1.11)	1.03 (0.71, 1.50)	
		Dense	1.00 (0.60, 1.67)	0.95 (0.44, 2.05)	1.06 (0.55, 2.03)	
	4	Light	0.95 (0.81, 1.12)	0.82 (0.63, 1.07)	1.08 (0.88, 1.33)	
		Medium	0.96 (0.72, 1.28)	0.84 (0.53, 1.34)	1.08 (0.75, 1.56)	
		Dense	1.01 (0.61, 1.68)	0.97 (0.45, 2.09)	1.06 (0.55, 2.03)	
Long bone fracture	0	Light	1.09 (1.02, 1.16)	1.10 (1.02, 1.20)	1.06 (0.95, 1.18)	
		Medium	1.12 (1.00, 1.26)	1.16 (1.01, 1.33)	1.06 (0.88, 1.28)	
		Dense	1.31 (1.09, 1.56)	1.37 (1.09, 1.70)	1.22 (0.90, 1.65)	
	1	Light	1.10 (1.03, 1.17)	1.11 (1.02, 1.20)	1.07 (0.96, 1.19)	
		Medium	1.09 (0.97, 1.22)	1.10 (0.95, 1.26)	1.07 (0.88, 1.29)	
		Dense	1.30 (1.09, 1.56)	1.32 (1.06, 1.66)	1.27 (0.94, 1.71)	
	2	Light	1.04 (0.97, 1.11)	1.04 (0.96, 1.13)	1.04 (0.94, 1.16)	
		Medium	1.05 (0.94, 1.18)	1.02 (0.88, 1.18)	1.10 (0.92, 1.33)	
		Dense	1.22 (1.01, 1.47)	1.31 (1.05, 1.64)	1.07 (0.77, 1.49)	
	3	Light	1.04 (0.97, 1.11)	1.05 (0.97, 1.14)	1.01 (0.91, 1.13)	
		Medium	1.01 (0.90, 1.13)	1.03 (0.89, 1.19)	0.97 (0.80, 1.18)	
		Dense	0.96 (0.78, 1.18)	1.09 (0.85, 1.39)	0.75 (0.51, 1.09)	
	4	Light	1.02 (0.95, 1.09)	1.05 (0.97, 1.14)	0.97 (0.86, 1.08)	
		Medium	1.04 (0.92, 1.16)	1.08 (0.93, 1.24)	0.98 (0.80, 1.18)	
		Dense	1.12 (0.92, 1.36)	1.17 (0.92, 1.49)	1.04 (0.75, 1.44)	
All visits	0	Light	1.02 (1.01, 1.03)	1.01 (1.00, 1.02)	1.03 (1.01, 1.04)	
		Medium	1.04 (1.02, 1.06)	1.03 (1.01, 1.05)	1.06 (1.03, 1.08)	

	Dense	1.06	(1.03 , 1.10)	1.04	(1.01 , 1.08)	1.09	(1.05 , 1.14)
1	Light	1.02	(1.01 , 1.03)	1.02	(1.00, 1.03)	1.02	(1.01 , 1.04)
	Medium	1.05	(1.03 , 1.07)	1.04	(1.02 , 1.06)	1.06	(1.04 , 1.09)
	Dense	1.04	(1.01 , 1.07)	1.01	(0.98, 1.05)	1.07	(1.03 , 1.12)
2	Light	1.01	(1.00, 1.02)	1.01	(1.00, 1.02)	1.02	(1.00, 1.03)
	Medium	1.04	(1.02 , 1.06)	1.03	(1.01 , 1.05)	1.04	(1.02 , 1.07)
	Dense	1.04	(1.01 , 1.07)	1.02	(0.99, 1.06)	1.07	(1.02 , 1.11)
3	Light	1.01	(1.00, 1.02)	1.01	(1.00, 1.02)	1.01	(1.00, 1.03)
	Medium	1.04	(1.02 , 1.06)	1.04	(1.02 , 1.06)	1.04	(1.02 , 1.06)
	Dense	1.04	(1.00, 1.07)	1.02	(0.98, 1.05)	1.06	(1.02 , 1.11)
4	Light	1.00	(0.99, 1.01)	1.00	(0.99, 1.01)	1.01	(0.99, 1.02)
	Medium	1.03	(1.01 , 1.05)	1.03	(1.01 , 1.05)	1.04	(1.02 , 1.07)
	Dense	1.01	(0.98, 1.04)	1.01	(0.98, 1.04)	1.02	(0.98, 1.06)

Table S3. Sensitivity Analysis - Risk of Select Outcomes Associated with Wildfire Smoke Exposure Among All Adults (19+) on Lag 0 Days, Calculated Using ZIP code Meta-Analysis, Poverty-Adjusted Analysis, and Compared to Manuscript Methods without ZIP code Stratification; 8 California Air Basins (Modeled, May 1 - September 30, 2015). Statistically Significant Relative Risks are Shown in Bold.

Models adjusted for heat index, day of week, time trend, and log-population offset. RR indicates relative risk; CI, confidence interval.

Meta-analysis excluded ZIP codes with populations less than 13,250 for model convergence.

Poverty-Adjusted analysis did not include 9 of 738 ZIP codes for which ZIP code-specific poverty data were not available.

Outcome	Density	Meta-Analysis		Poverty-Adjusted		Manuscript	
		RR	CI	RR	CI	RR	CI
All-cause Cardiovascular	Light	0.99	(0.98, 1.00)	1.03	(1.01, 1.04)	1.02	(1.00, 1.03)
	Medium	1.01	(0.99, 1.03)	1.06	(1.03, 1.08)	1.05	(1.03, 1.08)
	Dense	1.05	(1.01, 1.09)	1.09	(1.04, 1.13)	1.08	(1.03, 1.12)
Hypertension	Light	0.99	(0.98, 1.00)	1.02	(1.01, 1.04)	1.01	(1.00, 1.03)
	Medium	1.01	(0.99, 1.03)	1.05	(1.03, 1.08)	1.05	(1.02, 1.07)
	Dense	1.07	(1.03, 1.11)	1.09	(1.04, 1.13)	1.08	(1.03, 1.12)
Ischemic heart disease	Light	0.97	(0.92, 1.03)	1.01	(0.96, 1.07)	1.02	(0.97, 1.08)
	Medium	1.17	(1.07, 1.26)	1.01	(0.92, 1.10)	1.01	(0.92, 1.11)
	Dense	1.58	(1.40, 1.75)	1.01	(0.86, 1.18)	1.01	(0.86, 1.19)
Dysrhythmia	Light	0.99	(0.97, 1.01)	1.05	(1.03, 1.08)	1.06	(1.04, 1.09)
	Medium	1.06	(1.02, 1.10)	1.10	(1.05, 1.15)	1.10	(1.05, 1.15)
	Dense	1.14	(1.06, 1.21)	1.15	(1.06, 1.24)	1.16	(1.08, 1.25)
Heart failure	Light	0.99	(0.96, 1.02)	1.02	(0.99, 1.05)	1.01	(0.98, 1.04)
	Medium	1.08	(1.03, 1.13)	1.07	(1.02, 1.12)	1.06	(1.01, 1.12)
	Dense	1.23	(1.14, 1.32)	1.10	(1.01, 1.20)	1.09	(1.00, 1.19)
All-cause Cerebrovascular	Light	1.03	(0.98, 1.09)	1.05	(0.99, 1.11)	1.05	(1.00, 1.11)
	Medium	1.27	(1.17, 1.36)	1.07	(0.97, 1.18)	1.07	(0.97, 1.18)
	Dense	1.71	(1.53, 1.89)	1.11	(0.95, 1.31)	1.12	(0.95, 1.32)
All-cause Respiratory	Light	0.98	(0.97, 1.00)	1.03	(1.01, 1.05)	1.02	(1.00, 1.04)
	Medium	1.05	(1.02, 1.07)	1.09	(1.06, 1.12)	1.09	(1.05, 1.12)
	Dense	1.05	(1.01, 1.10)	1.10	(1.05, 1.16)	1.09	(1.03, 1.15)
Long bone fractures	Light	1.06	(1.00, 1.12)	1.09	(1.02, 1.16)	1.09	(1.02, 1.16)
	Medium	1.29	(1.18, 1.40)	1.12	(1.01, 1.25)	1.12	(1.00, 1.26)
	Dense	2.32	(2.13, 2.51)	1.30	(1.09, 1.55)	1.31	(1.09, 1.56)